



TEGAM®

BOND METER

Model 730A



Wireless Datalogging Handheld Bond Meter

From the Low Resistance Experts. The only wireless portable bond meter assembled in the U.S.A that offers superior accuracy, 100-hour battery life, and a 3-year warranty.



INTEGRITY in measurement is essential when critical aircraft assemblies are inspected. Nothing ensures this more effectively than the 730A bond meter. It captures crucial readings and seamlessly connects them to any software system from spreadsheets to Quality Management without the integration headache. Advanced new tools that support IOS, Android and Windows are available with each instrument. You may be skeptical about how truly easy it is. See for yourself that seamless data collection is possible without complicating workflow.

The new 700 series are also exceptional measurement tools that you can **rely on every day** with confidence. They are designed with informative displays and key features for mistake-free usage.

TEGAM is the largest producer of bond meters for airframe testing in both military and commercial applications. We also make some of the finest low resistance measurements instruments in the world. We combined this experience into the smallest size bond meter that you can take with you anywhere on an airframe with ease. We also developed unique low power techniques so that you don't have to deal with power cords or battery chargers. The 730A will run for 100 hours on 3 standard AA batteries and has auto power off to preserve them. The battery health is clearly indicated so that you have ample warning for replacement.

PROBES are often more important than the instrument. No one has wider range of configurations to meet and adapt to your needs. From tight spacing to piercing paint, we have a handle and tip combination for virtually all applications. You can mix styles to make your job easier. The dual connector system permits a Kelvin Clip for one point of connection while the ergonomic tri-shape probe on the second lead can be used for accessing multiple points with one hand.

The creative ergonomic design makes these instruments easy to hold, easy to read and easy to clean. **Designed for one-handed operation**, these tools are comfortable to carry and use for extended periods of time.

Like all TEGAM products, the 700 Series bond meters are designed, assembled and tested in the United States. TEGAM backs this durable instrument with a **3-year warranty** to assure you that your investment is sound.

For over 30 years, TEGAM has been building hand held instruments for challenging applications. TEGAM's 700 Series extends that experience into highly portable bond meters tasked with producing **reliable measurements in tight spaces encountered with aircraft**. They are designed to be durable and easy to use, with advanced features for better measurements.

When the Measurement Matters, Be Certain with TEGAM.

FEATURES

- Wireless Link (Bluetooth LE)
- IOS/Android/Windows Support
- Superior Accuracy
 $\pm(0.2\% |rdg| + 0.02\% \text{ Range})$
- Widest Probe Selection
- Uncomplicated, Back-lit Display
- 100-Hour Battery Life (3AA)*
- Smallest and Lightest Bond Meter
- 3-Year Warranty
- Assembled in USA

*Actual battery life depends on measurement range, frequency, and bluetooth operation.



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Specifications

Resistance Ranges and Test Currents		
Full Scale	Resolution	Test Current
10.000 mΩ	1 μΩ	100 mA
100.00 mΩ	10 μΩ	10 mA
1.0000 Ω	100 μΩ	1 mA
10.000 Ω	1 mΩ	100 μA
100.00 Ω	10 mΩ	10 μA
Basic Accuracy*	±(0.2% Reading + 0.02% Range)	
Recommended Calibration Cycle	1 year	
Connector Type	M12	
Display	4½-Digit Auto-Ranging with Backlight and Function Annunciators	
Reading Rate	3 readings / sec.	
Battery Type	3 AA (IEC LR6, ANSI 15) Alkaline	
Battery Life	Standby: 100 hours; Operation in 10 mΩ range: 50 hours	
Operating Environment:		
Temperature	-10 to 55 °C	14 to 131 °F
Humidity	5 to 95%, 10 to 30 °C	5 to 95%, 50 to 86 °F
Altitude	0 to 4600 m	0 to 15,092 ft.
Vibration	Random 10-500 Hz, 0.03 g²/Hz	
Shock	30g Half Sine	
Drop	4 drops from 1 m to concrete	
Remote Operation	Android™, Apple Mobile Device Applications, Windows	
Dimensions	193 X 84 X 28 mm	7.6 X 3.3 X 1.1 in.
Weight (including batteries)	303.2 g (10.7 oz.)	
Warranty	3 year Parts & Workmanship	
Included Accessories	3 AA Batteries, Quick Start Guide, Certificate of Traceability	

Ordering Information	Model	Description
Bond Meter	730A	Wireless Datalogging Handheld Bond Meter
Required Accessories	Probes/Tips	See page 3 & 4 for options
Optional Accessories *See product images on page 4	700-910 700-912 700-911 700-915 710-17025	Tilt Stand / Magnetic / Hanger (Factory Installed) Tilt Stand / Magnetic / Hanger (User Installed) Foam-Filled Hard Carry Case SureGrip™ Cover ISO 17025 Calibration Report

*Accuracy based on recommended calibration cycle.



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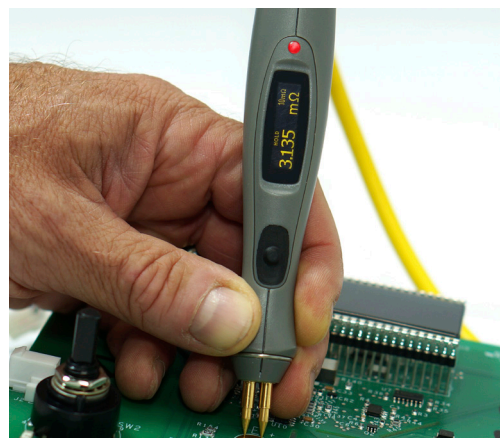


Probes

Choose two of the following probes to make a probe set, and choose one or two tip types. Any combination is valid, but only one display probe can be used in a set (display probe must be connected to channel one).

BKP	Standard Kelvin Probe
BKDP	Standard Kelvin Display Probe
BKEP	Big Kelvin Extended Probe, 700 Series
MKP	Miniature Kelvin Probe
MKDP	Miniature Kelvin Display Probe
MCP	Miniature Kelvin Coaxial Probe
MCDP	Miniature Kelvin Coaxial Display Probe
KC	Kelvin Clip Leads

BKDP Standard Kelvin Display Probe

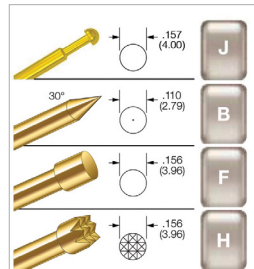


BKP Probe with “B” Style Pins Installed

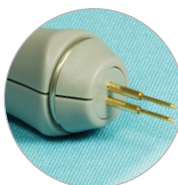


0.19"
(4.8 mm)
Pin Spacing

BKP Pin Options

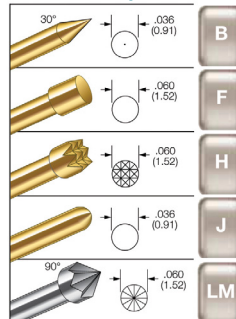


MKP Probe with “B” Style Pins Installed



0.11"
(2.8 mm)
Pin Spacing

MKP Pin Options



MCP Probe



BKEP-M2 Big Kelvin Extended Probe 700 Series



KC Kelvin Clip Leads





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Ordering Information (continued)

Part #	Description
Standard Kelvin	
BKDP-M2	Big Kelvin Display Probe, 700 Series
BKP-M2	Big Kelvin Probe, 700 Series
BKEP-M2	Big Kelvin Extended Probe, 700 Series
Coaxial	
MCDP-M2	Miniature Coaxial Display Probe, 700 Series
MCP-M2	Miniature Coaxial Probe, 700 Series
Miniature Kelvin	
MKDP-M2	Miniature Kelvin Display Probe, 700 Series
MKP-M2	Miniature Kelvin Probe, 700 Series
Kelvin Clip	
KC-M2	Kelvin Clip, 700 Series, 2m
KC-M5	Kelvin Clip, 700 Series, 5m

Optional Accessories



700-911
Foam-Filled Hard Carry Case



700-915
SureGrip™ Cover



700-910 or 700-912
Tilt Stand / Magnetic / Hanger

Mouser Electronics

Authorized Distributor

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[730A](#)